

FIG. 1B

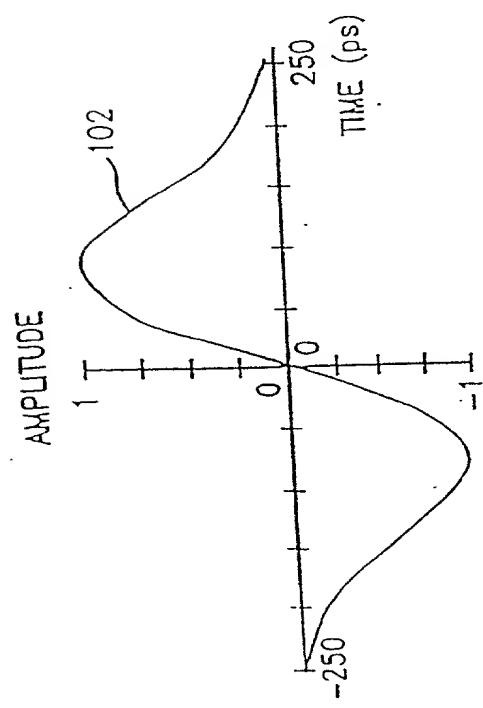


FIG. 1A

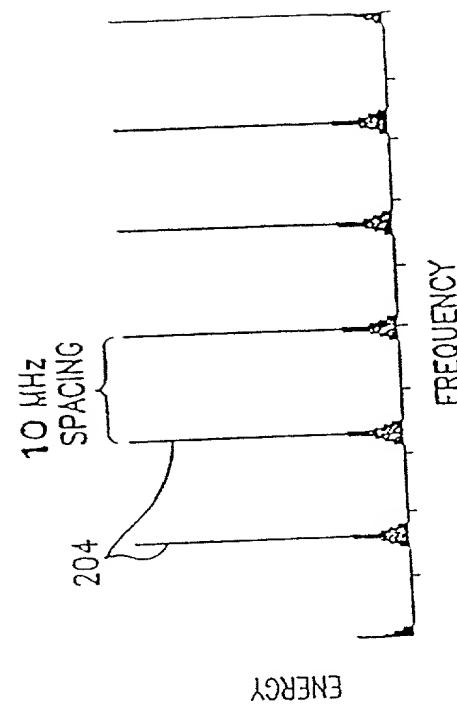


FIG. 2B

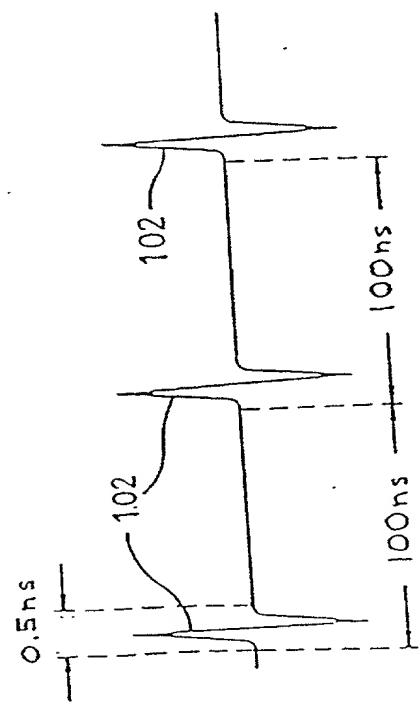


FIG. 2A

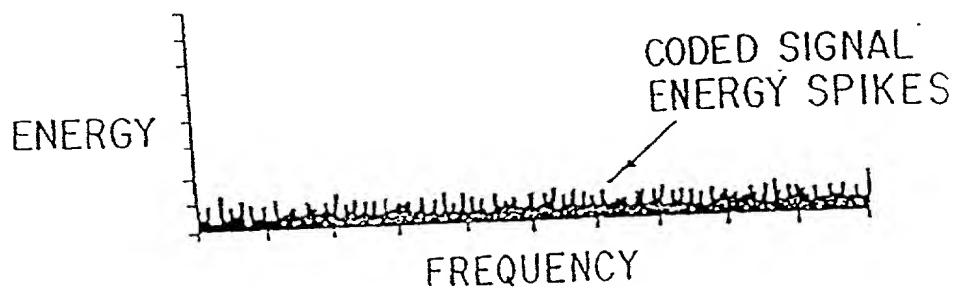


FIG. 3

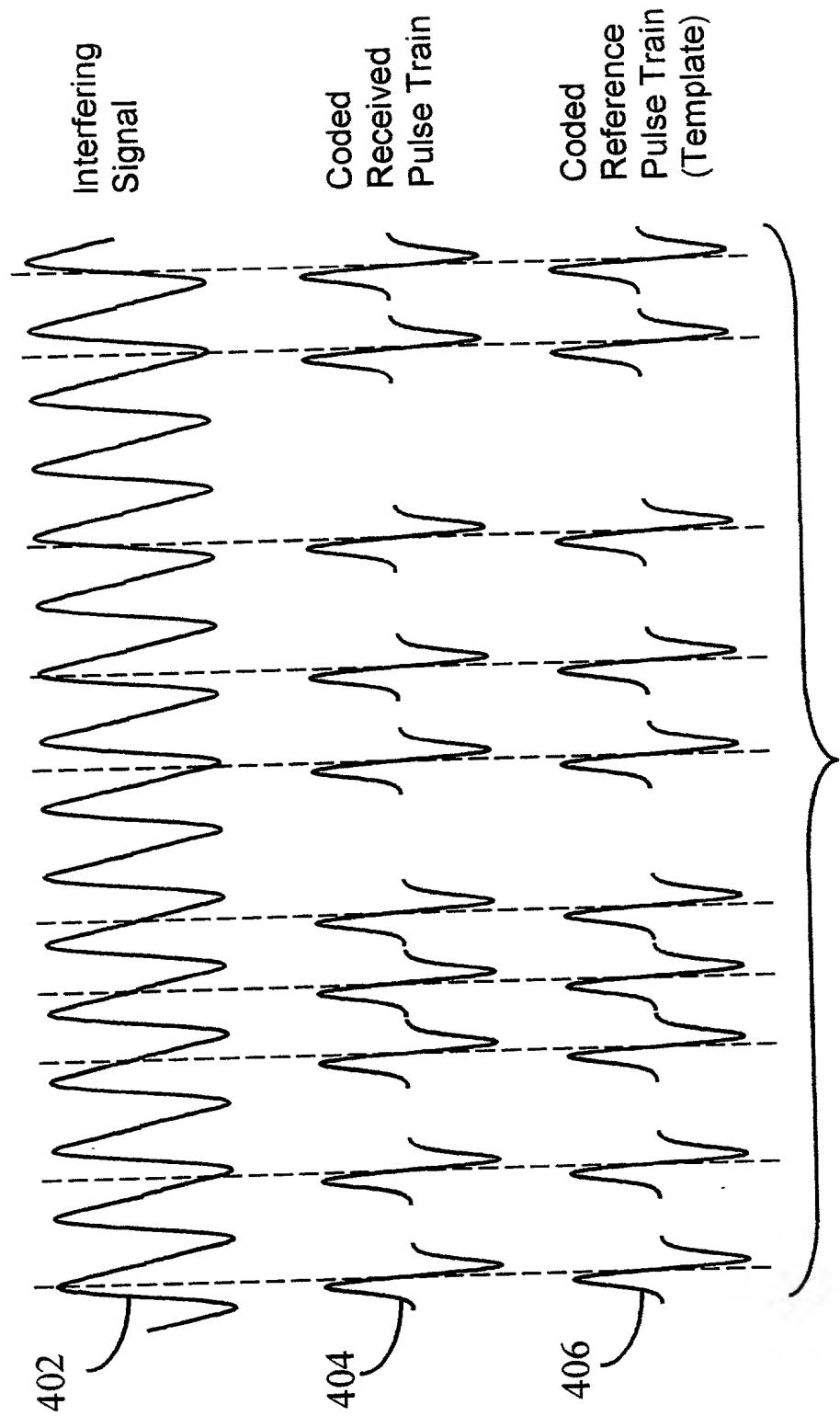


FIG. 4

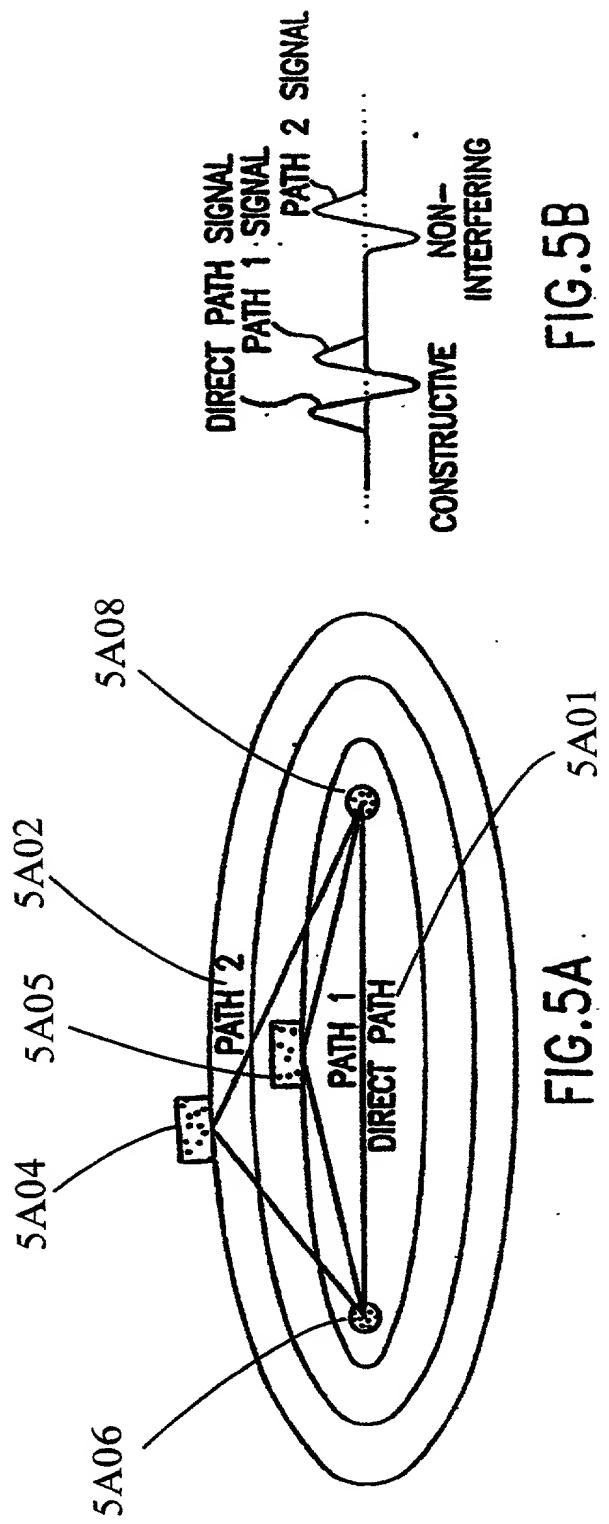
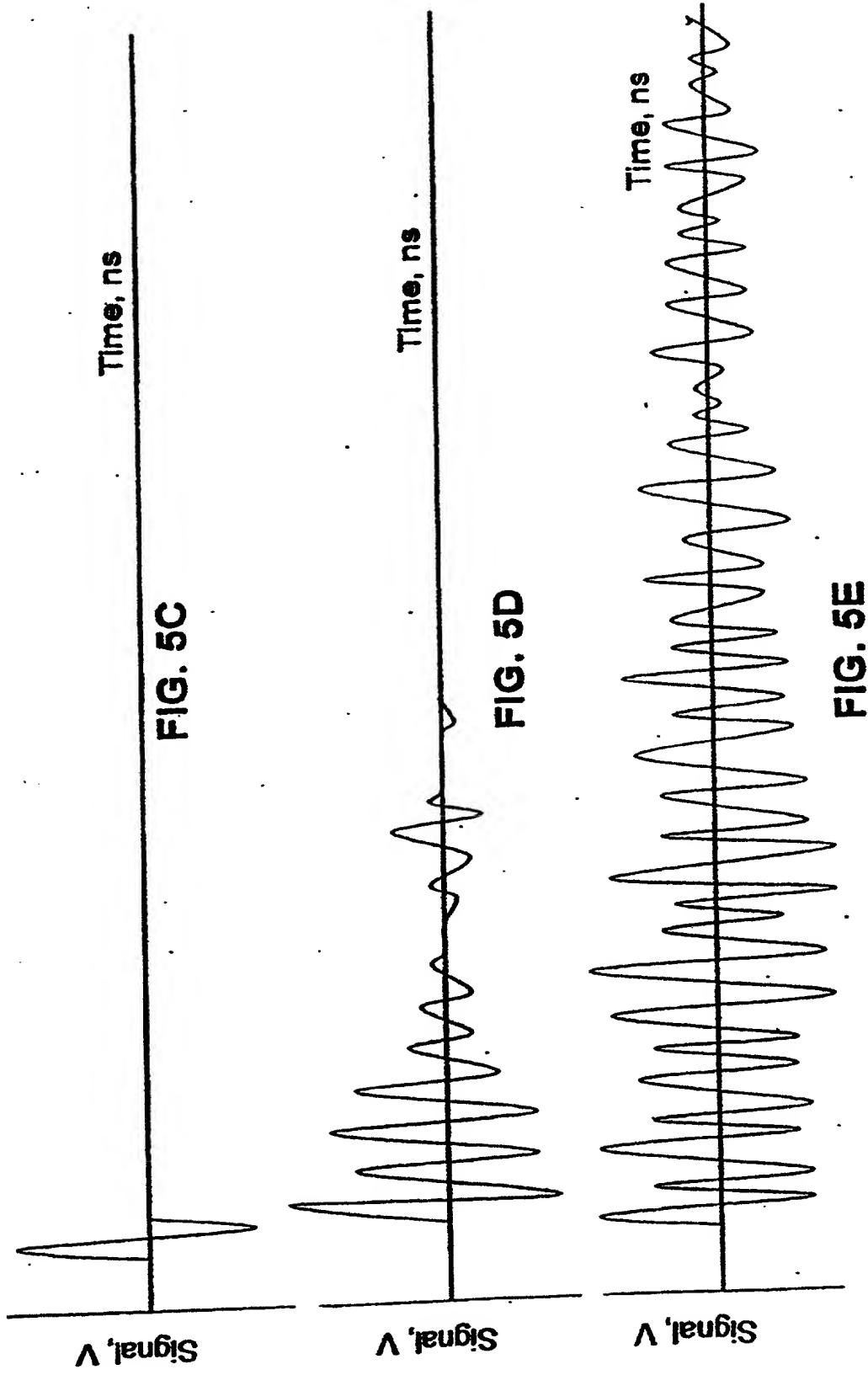


FIG.5A.

FIG.5B



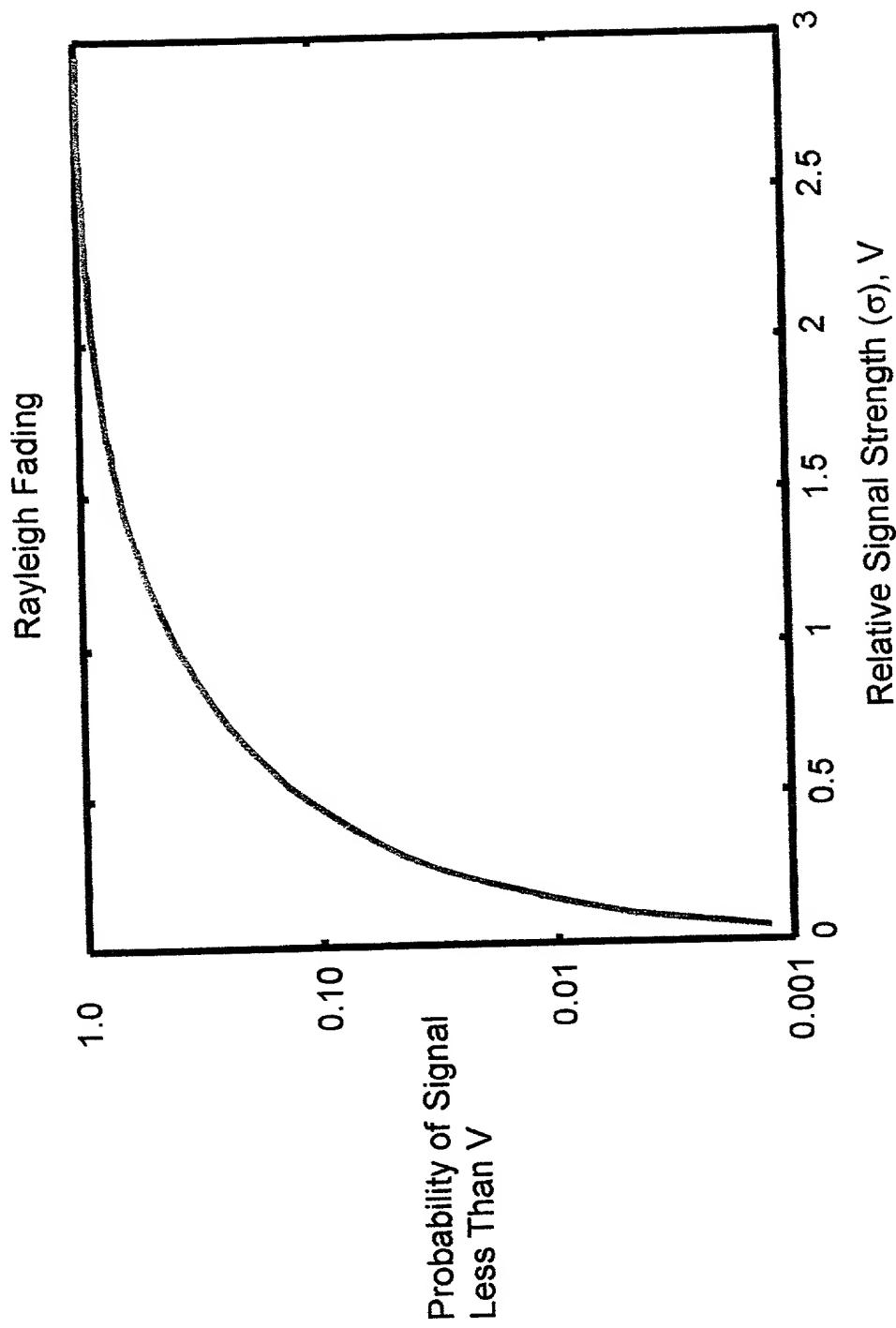


Fig. 5F

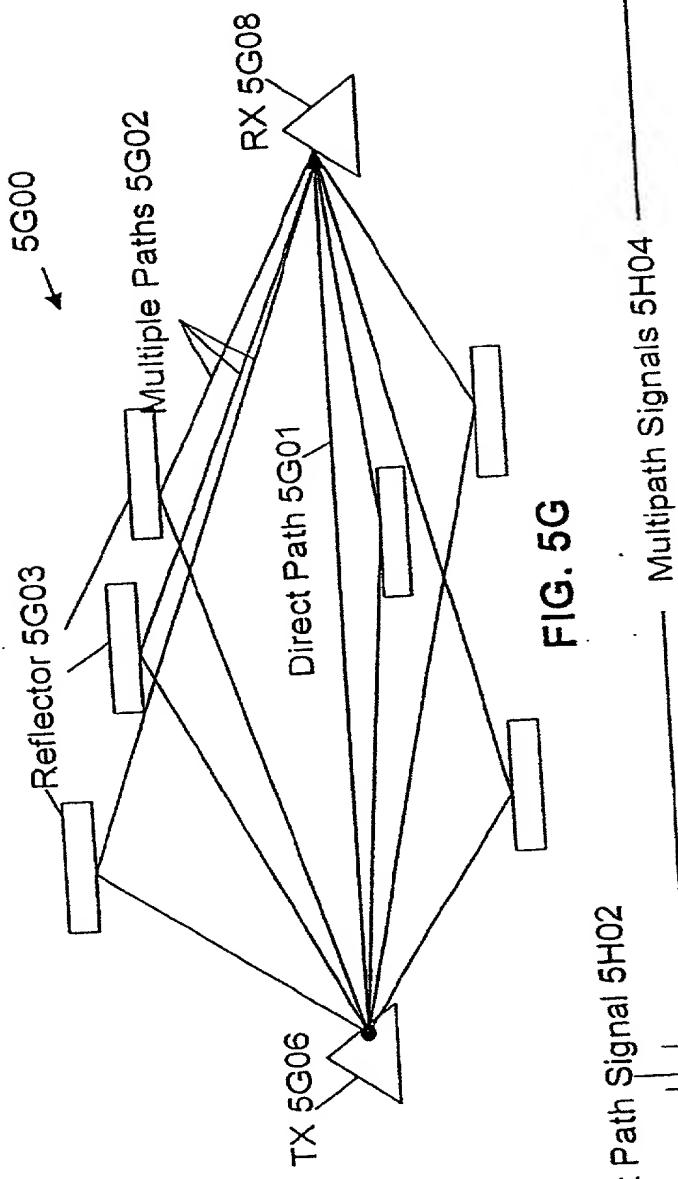


FIG. 5G

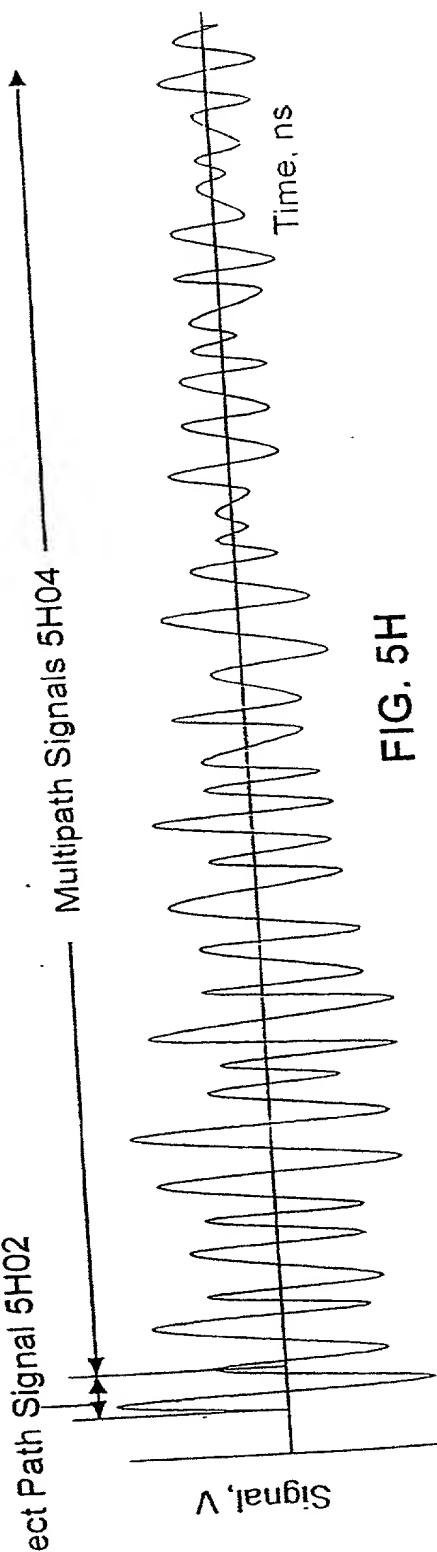


FIG. 5H

Impulse Radio Receiver  
702

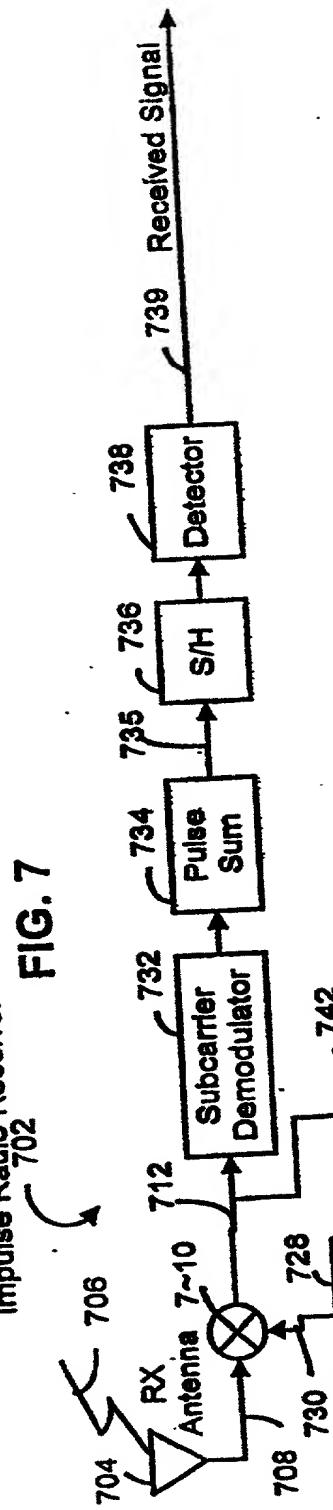


FIG. 7



FIG. 6

Impulse Radio Transmitter  
802

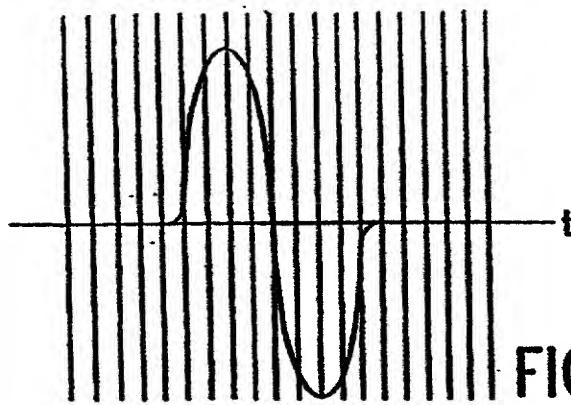


FIG. 8A

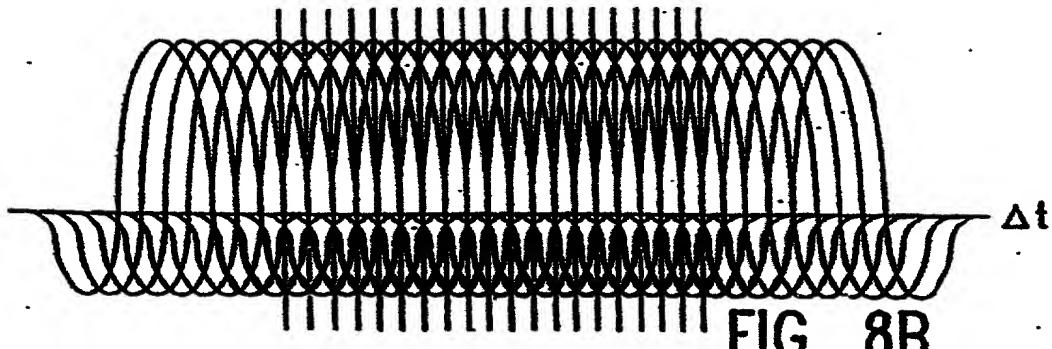
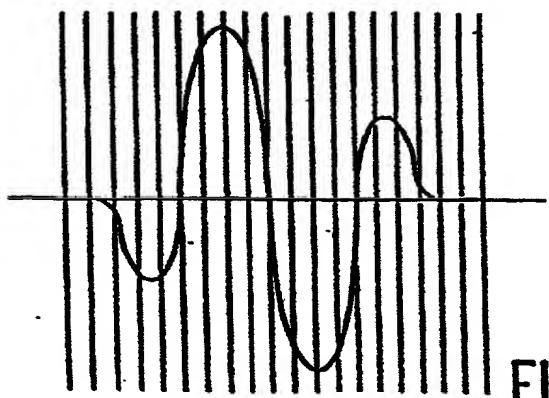
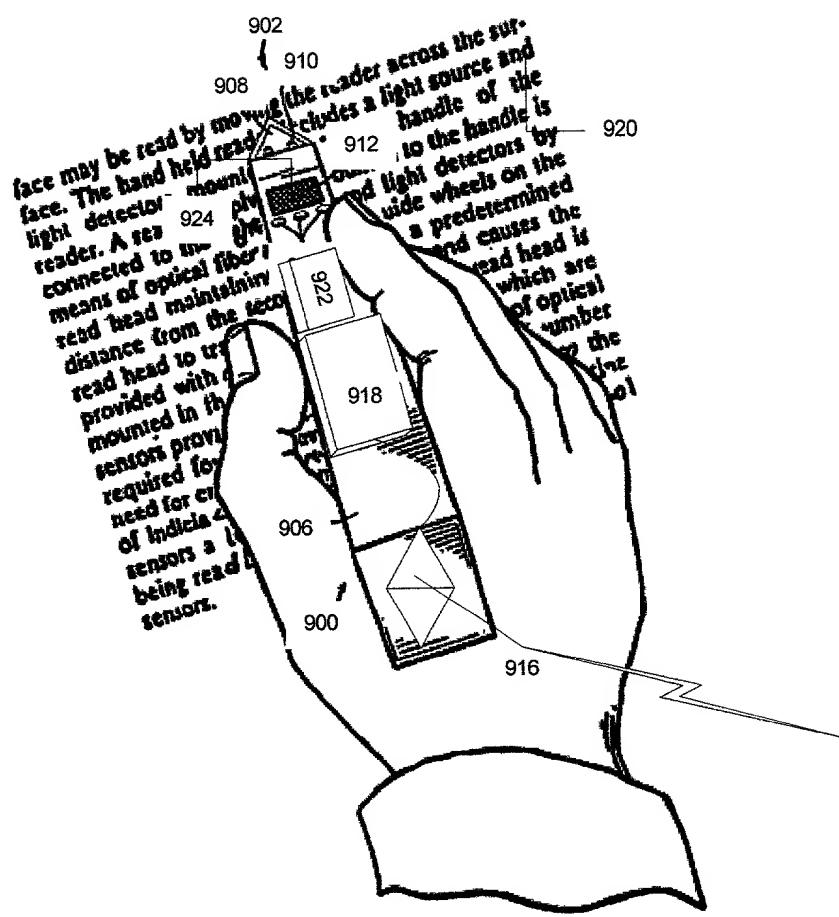


FIG. 8B

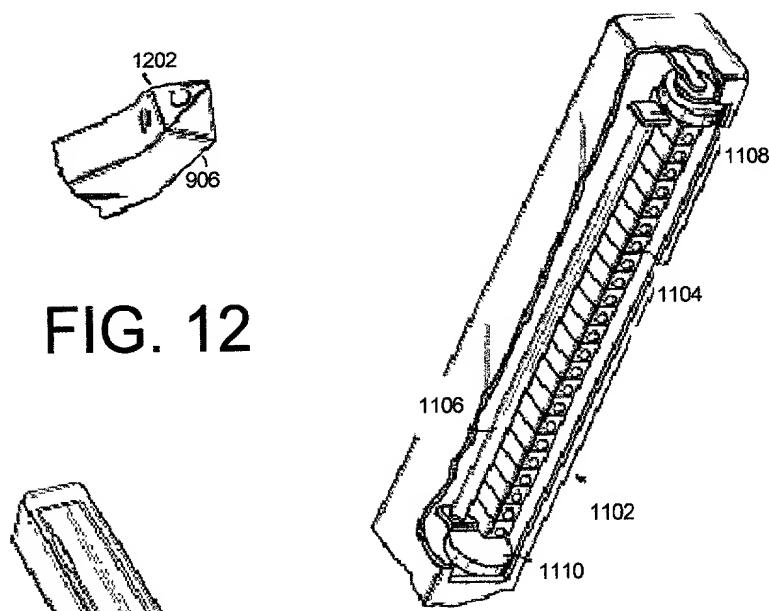


CORRESPONDING  
TO EACH  
 $\Delta t$

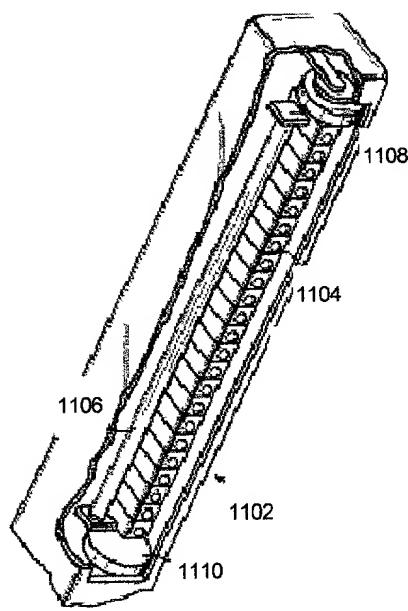
FIG. 8C



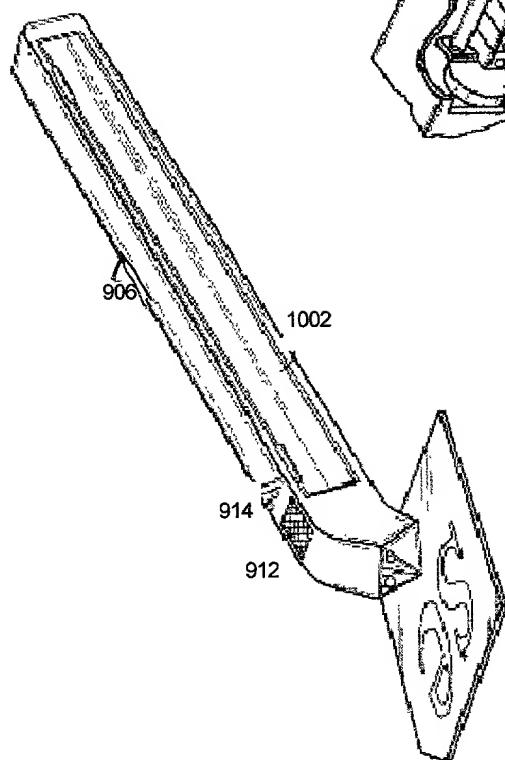
**FIG. 9**



**FIG. 12**



**FIG. 11**



**FIG. 10**

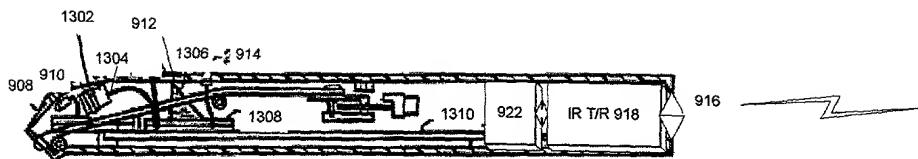


FIG. 13

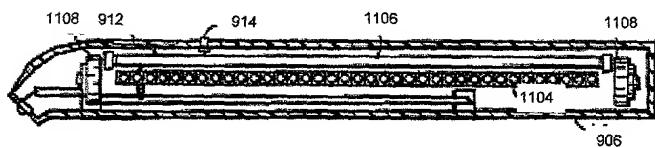


FIG. 14

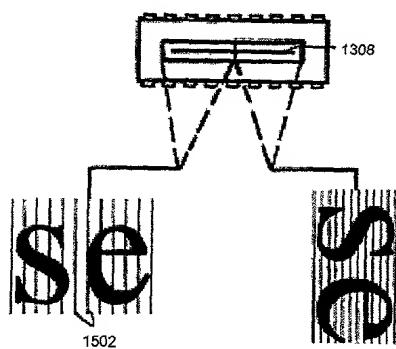
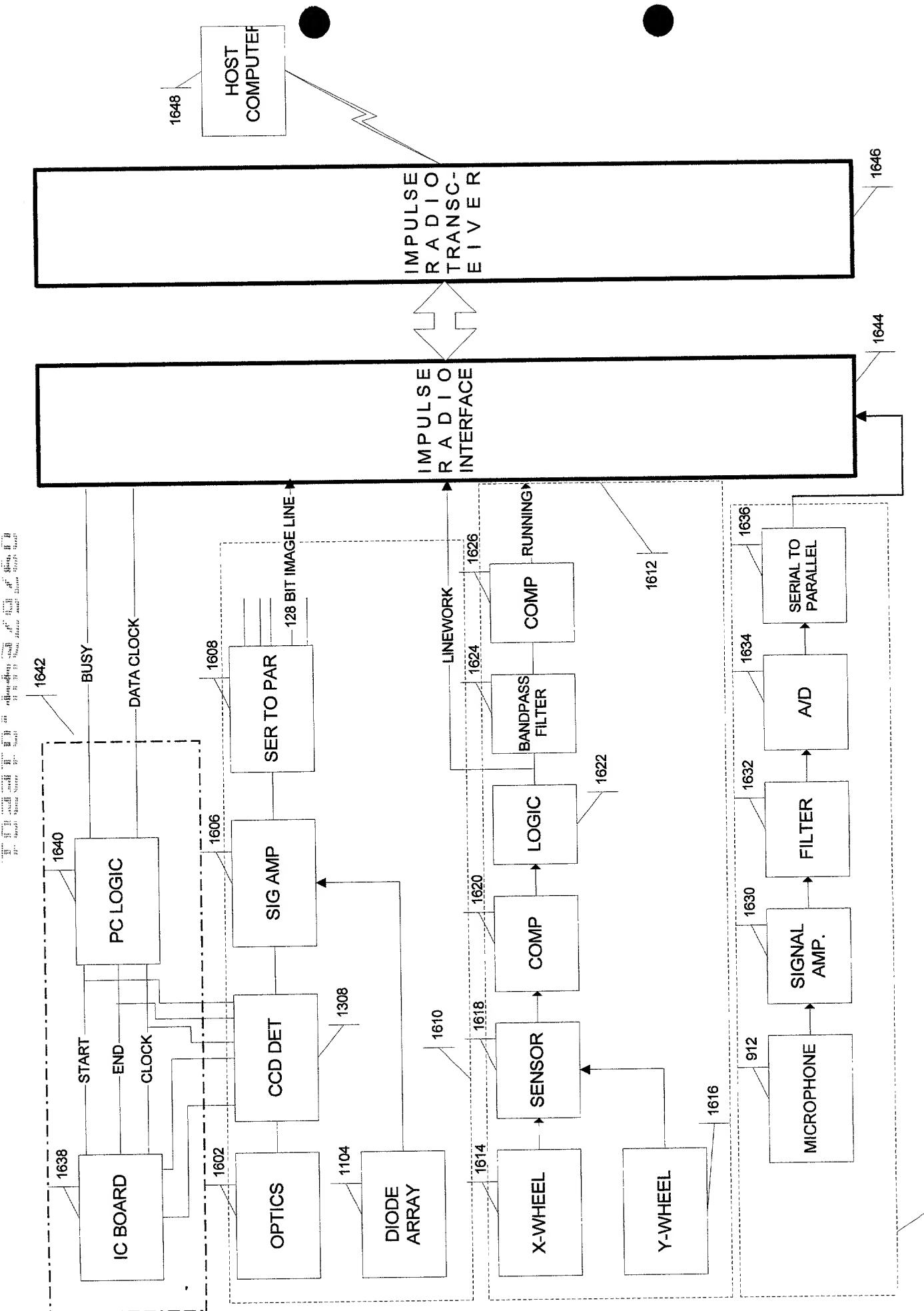


FIG. 15

FIG. 16



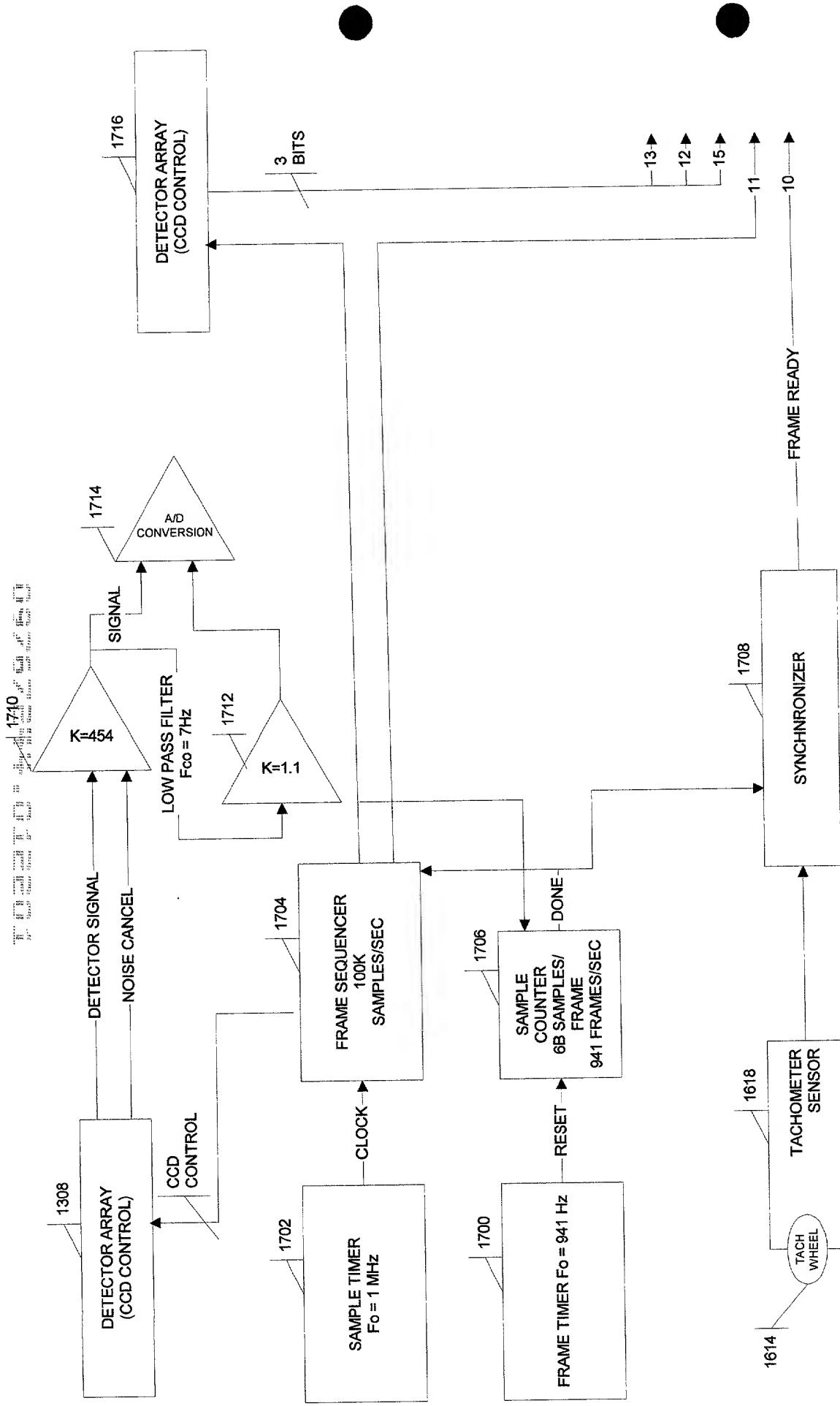


FIG. 17

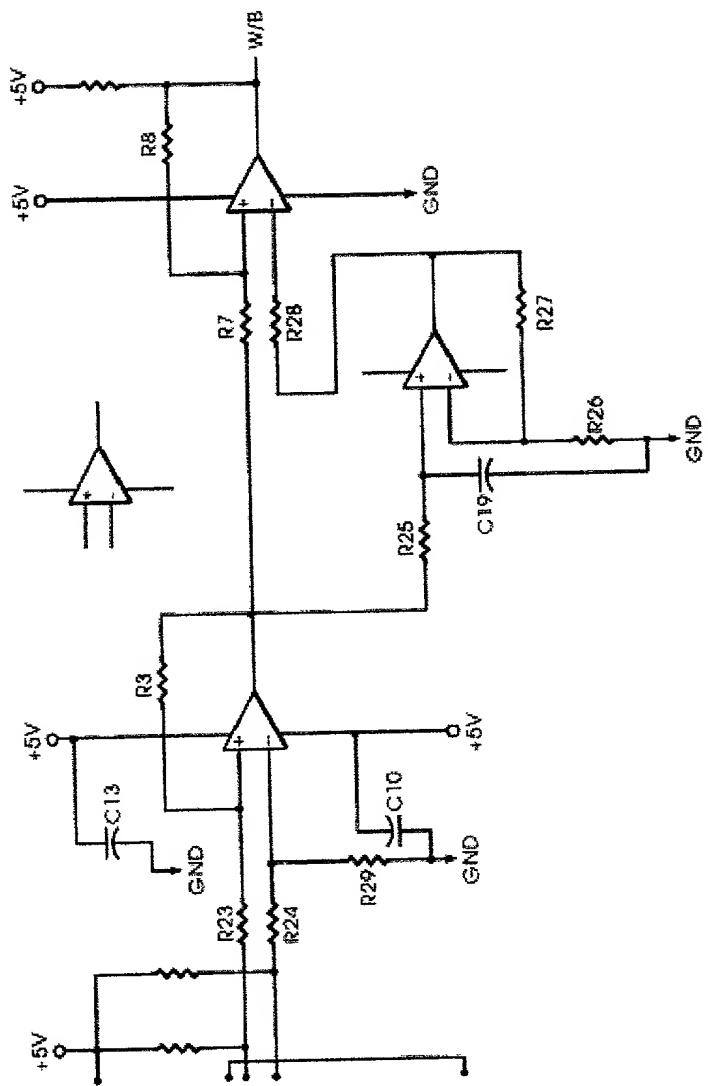
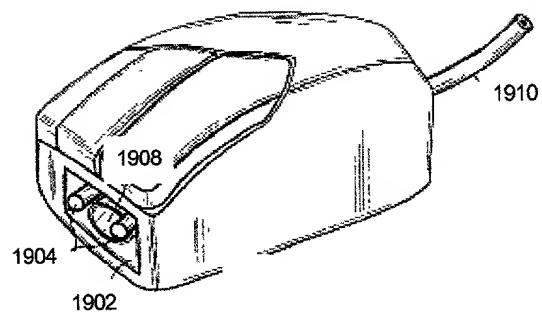
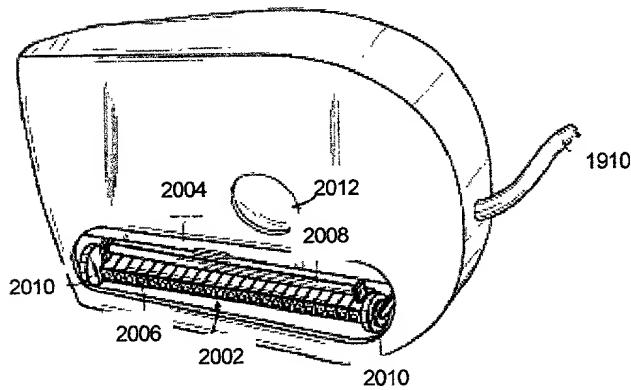


FIG. 18



**FIG. 19**



**FIG. 20**

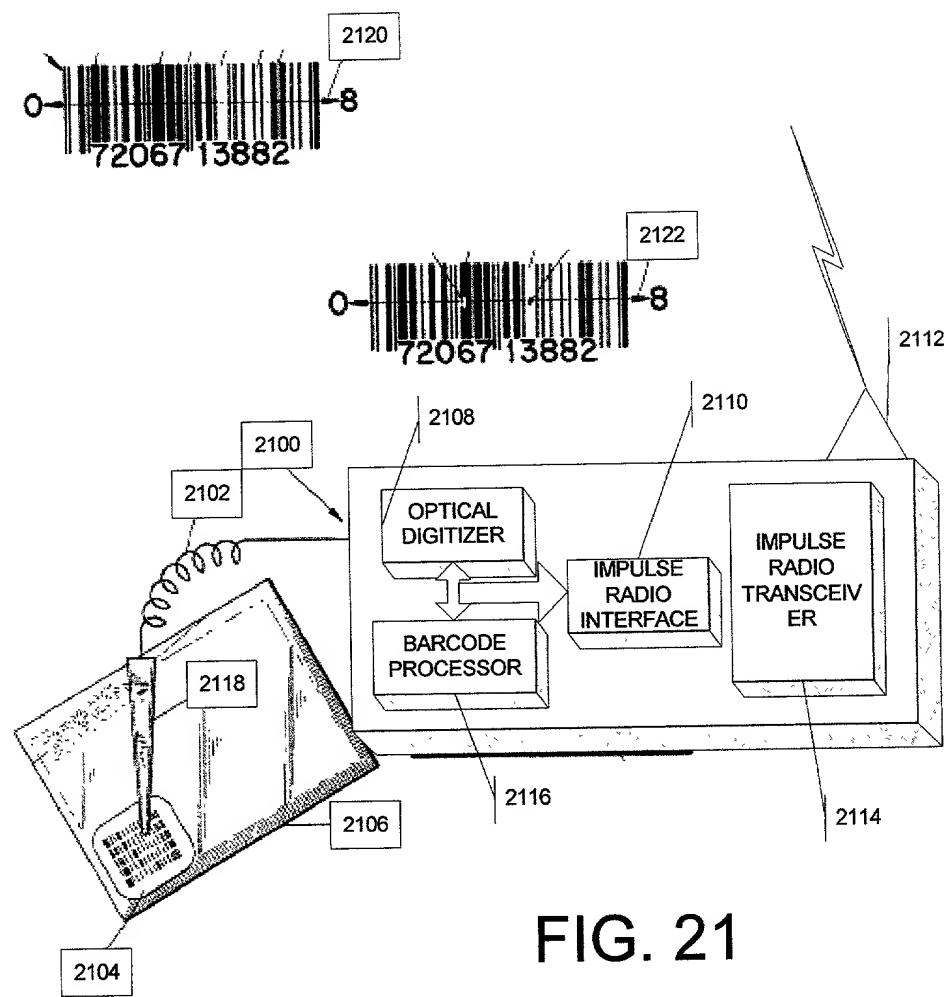


FIG. 21